Chi- Square test for association Practice NAME:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Two different professors teach an introductory statistics class at a local college. The table below shows the distribution of final grades they reported. We wonder if there is an association between professor and grade? You can assume this sample is representative of all their students.

|  |  |  |
| --- | --- | --- |
|  | **Prof. A** | **Prof. B** |
| **A** | 12 | 27 |
| **B** | 33 | 36 |
| **C** | 42 | 24 |
| **Below C** | 36 | 9 |

1. A recent random poll conducted by the University of Montana looked at gender and political party. The results are below. Is there a relationship between political party and gender?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Democrat** | **Republican** | **Independent** | total |
| **Male** | 36 | 45 | 24 | 105 |
| **Female** | 48 | 33 | 16 | 97 |
| total | 84 | 78 | 40 | 202 |